sau96I

**IMmdd** avaII

banII eco0 ddeI

bsp1286

bstXI

hinPI

mnlI ecoNI haeIII

mspI hinfI

haeI hpaII

mnlI MetAsnArgGlyValProPhe

ArgHisLeuLeuValLeuGlnLeuAlaLeuLeuProAlaAlaThrGlnGlyAsnLysValValLeuGlyLysLysGlyAspThrValGluLeuThrCys fnu4HI haeII mnlI hhaI fnu4HI bbvI ddeI

mboII banII bsp1286 nlaIV

> AVAII sau96I

ThrAlaSerGlnLysLysSerIleGlnPheHisTrpLysAsnSerAsnGlnIleLysIleLeuGlyAsnGlnGlySerPheLeuThrLysGlyProSer

hinPI hhaI styI sau96I sau3AI pleI

avaII sau96I

ThrLeuG1uSerProProGlySerSerProSerValG1nCysArgSerProArgG1yLysAsnIleG1nG1yG1yLysThrLeuSerValSerG1nLeu pleI hinfI PVUII

## FIG. 1B-1

801 217	.70 18	15	
801 AC	aluI 701 TCCAGCATAGTCTATAAGAAAGAGGGGGAACAGGTGGAGTTCTCCTTCCCACTCGCCTTTACAGTTGAAAAGCTC AGGTCGTATCAGATATTCTTTCTCCCCCCTTGTCCACCTCAAGAGGGAAGGGTGAGCGGAAATGTCAACTTTTCGAC 183 SerSerIleValTyrLysLysGluGlyGluGlnValGluPheSerPheProLeuAlaPheThrValGluLysLe	150 CC	
Alac Alac	CAGC	aluI sacI bstNI hgiAI bsp1286 banII GGAGCTCCAGG CCTCGAGGTCC GluLeuGlnA	
mnli RAGAGGG TCTCCC	CATAC STATC	119ne 1299 1986 1189	bstXI
rgal.	STCT/ CAGA: /alty	AI GATI CCTAI	Ω
mn TTCC NAGG	ATAA FATT YXLY	n AGTG RCACC SerG	
mnlI lI p TCCTC SerSes	GAAA CTTT SLys	s haiv bani . GGCAC CCGTG GLYTh:	
hphI sau3AI mnlI dpnI mnlI dpnI molI mnlI mhlI mboII AGCCGGAGAGGCTTCCTCCAAGACCTTGGAACCTTGGAACCTTGTCAAAACGG TCCGCCTCTCCCAAGGAGGTTCAGAACCTAGTGGAACTTCTTGTTCCTTCACAGACATTTTTGCC AlaGluargalaserSerSerLysSerTrpIleThrPheAspLeuLysAsnLysGluValSerValLysArg	aluI TCCAGCATAGTCTATAAGAAAGAGGGGGAACAGGTGGAGTTCTCCTTCCCACTCGCCTTTACAGTTGAAAAGCTC AGGTCGTATCAGATATTCTTTCTCCCCCCTTGTCCACCCTCAAGAGGAAGGGTGAGCGGAAATGTCAACTTTTCGA( SerSerIleValTyrLysLysGluGlyGluGlnValGluPheSerPheProLeuAlaPheThrValGluLysLe	aluI sacI bstNI sacI bstNI bstNI bstNI bsp1286 nlaIV banII banII cCTCCAGGATAGTGGCACCTGTACGTGCAGAACCGTCTTCTTCTCTTCTTTTTTTT	
I GTCT SSer	GGGA CCCT 1yG1	nlaiii ACATGCA TGTACGT	
hpi sau3; dpnI alwI TGGATC; ACCTAG;	ACAG TGTC uGln	III GCAC CGTG	
hphi sau3Ai dpni ilwi SGATCAC CTAGTGC	CACC CACC	TGTC ACAG	
CTTT	AGTT TCAA Luph	TTGC	
GACC CTGC	reSer CACC	AGAJ TCTT	
mboII TGAAGA ACTTCT	TTCC AAGC	CCAC	
JII NGAA NCTTO	CAC	mboli GAAGA CTTCT	
CAAG	rccc SuAl	L LAGG	:
GAAG GTTC GLUV	CTTT GAAA aPhe	ACCT ACCT ACCT	
TGTC ACAG alse	ACAG TGTC	GTTC CAAG uPhe	
TGT!	TTG! AAC! Algi	AAA? TTTT!	
AAAA TTTTC	AAA(TTTC	ATAG (ATC)	
Argv bs cccc	aluI \AGCTG \TCGAC' LysLeu'	ACATO	
bstEII GGTTAC CCAATG	ACGG TGCC	CGTG GCAC eVal	
sanna nl av ppu scrfi bstNI eco CCAGG	GCAG CGTC lyse	nh GTGC CACG	
sau96I nlaiv avaII ppuMI scrfI bstNI ll eco0 d ACCCAGGACCC	TGGC ACCC	aluI nheI GCTAGCT CGATCGA LLeuAla	
sau96I nlaIV avaII ppuMI crfI stNI a eco0 ddeI CAGGACCCTAA CAGGACCCTAA GTCCTGGGATT	aluI GAGCT CTCGA	TTTT SAAAC	
aluI II AGCT TCGA	II CTGT SACA Leur	CCAC CACTO	
sau96I nlaIV avaII ppuMI sau3AI  mnlI mnlI dpnI AGGCGGAGAGGCTTCCTCCTCCAGAACCTAGTGGAAACCTGGAAACCTGGAACTTCTTCACAGACATTTTGCCCAATTGGCTCCTAAGTCTAAGTCTAAGTCTAAAACGGCTCCAAGTAAACGGCTCCAAGTAAACCTGAAGTCTAAAACTGGATCACAAGTAAACGGCTCTAAGTCTAAAACTAAACGGCTCTAAGTCTAAAACTAAAACGGCTCTAAGTCTAAAACCTAAGTAAACGAAGTTTCTACAAAACGAAGTATTTGCCCAATTTTGCCCAATTTCGAAGTTCTAAAACGGTTCTAAGTCTAAAACGGTTCTAAGTCTAAGTAAACGGTTCTAAGTTATTTGCCCAATTTTGCCCAATTTCGAAGTTCTAAAACGGTTCTAAAACGGTTCTAAGTTTCGAAGTTCTAAAACGGTTCTAAGTTTCGAAGTTCTAAAACGGTTCTAAGTTTTTTTT	aluI GACGGGCAGTGGCGAGCTGTGGTGGC CTGCCCGTCACCGCTCGACACCACCG	aluI sacI bstNI scrFI haeI bstNI bstNI haeI hsiAI hsiAI hsiAI bsp1286 nlaIV nlaIII banII banII cGAGCTCCAGGATAGTGGGACCTGTACGTGTGTGTGTGTGT	
AT TA	aluI TCCAGCATAGTCTATAAGAAAGAGGGGGAACAGGTGGAGTTCTCCTTCCCACTCGCCTTTACAGTTGAAAAGCTGACGGGCAGTGGCGGCGAGCTGGTGGTGG AGGTCGTATCAGATATTCTTCTCCCCCCTTGTCCACCTCAAGAGGAAGGGTGAGCGGAAATGTCAACTTTTCGACTGCCCGTCACCGCTCGACACCACCG SerSerIleValTyrLysLysGluGlyGluGlnValGluPheSerPheProLeuAlaPheThrValGluLysLeuThrGlySerGlyGluLeuTrpTrpGln	mnli haeIII aeI GGCC CCGG	
		,	

sfaNI bstNI hphI ddeI staNI
1001 TTGCATCAGGAAGTGAAGCCTGGTGGTGATGAGAGCCACTCAGGTCCAGAAAAATTTGACCTGTGAGGTGAGGTGGACCCACCTCCCCTAAGCTGATGCTGA
AACGTAGTCCTTCACTTGGACCACCACCTACTCCGGTGAGTCGAGTCTTTTTAAACTGGACACTCCACACCCCTGGGTGGAGGGGATTCGACTACGACT
283 LeuHisGlnGluValAsnLeuValValMetArgAlaThrGlnLeuGlnLysAsnLeuThrCysGluValTrpGlyProThrSerProLysLeuMetLeuSer 901 GGGCAAGAAGCTCCCGCTCCACCCTCACCCTGCCCCAGGCCTTGCCTCAGTATGCTGGCTCTGGAAACCTCACCCTTGGCCCTTGAAGCGAAAACAGGAAAAG CCCGTTCTTCGAGGGCGAGGTGGAGTGGGACGGGGTCCGGAACGGAGTCATACGACCGAGACCTTTGGAGTGGGACCGGGAACTTCGCTTTTGTCCTTTC 250 GlyLysLysLeuProLeuHisLeuProGlnAlaLeuProGlnTyrAlaGlySerGlyAsnLeuThrLeuAlaLeuGluAlaLysThrGlyLys ecoNI bstNI stuI haeI haeIII mnlI bstNI ppuMI nlaIV scrFI AVAII nlaIV sau96I haeIII sau96I

pleI hinfI

ddeI mstII

aval alwni hinfi
1201 cTcGGGACAGGTCCTGCTGGAATCCAACATCAAGGTTCTGCCCACATGGTCCACCCCGAGCTTTAATGCGGTAGTTTATCACAGTTAAATTGCTAACGCA
GAGCCCTGTCCAGGACGACCTTAGGTTCCAAGACGTCCACGGGTGTACCAGGTGGGGCTCCAAATTACGCCATCAAATAGTGTCAATTTAACGATTGCGT
350 SerGlyGlnValLeuGluSerAsnIleLysValLeuProThrTrpSerThrProSerPheAsnAlaValValTyrHisSerOC\* PpuMI eco0 avaII sau96I mnlI nlaIV avaII sau96I scrfi bstNI Idsm ncil

hpall mspI

1401 GGGCCTCTTGCGGGAT CCCGGAGAACGCCCTA sau96I

haeIII mnlI

•	301 76	201	101	р р
hinPI hhaI thaI sau3AI	mboII mboII TCCĊAGAAGA AGGGTCTTCT SerGlnLysL	fnu4HI thaI TCGCCGCAAA AGCGCCGTTT ArgGLYLYs	mnli avaysı haeIII sfaNI haeIII tagI haeIII sau96I sacII styI fokI mnlI eaeI claI sau96I sau96I sacII styI fokI mnlI eaeI claI GGGCCGTGATTTTGTTGTCGTCATAGTGGGCCTCCATGGGGTCCGCGGCCCAATATATGCCTTGGCGGGTTGCCTCTCAAGATGGCCGACCCAATCGATT CCCGGCACTAAAACAAACAGCAGTATCACCCGGAGGTTACCCCAGGCGCCCTTATATACGGAAACAGCCTACGGAGAGTTCTACCGGCTTAGCGTAACCTAA AlavalIleLeuPheValValIleValGlyLeuHisGlyValArgGlyLysTyrAlaLeuAlaAspAlaSerLeuLysMetAlaAspProAsnArgPh	thaI sau3AI mseI hindIII hhaI AAGCTTCAGCGCGAACGACCAACTAGCGCCTAGTAGTCAATCAA
I pleI	mboli II GAAGAGCATACA CTTCTCGTATGT sLysSerIleGl	sau ava mspī l hpaII GACCTTCCGGT CTGGAAGGCCA	TTTGTTTGTC AAACAAACAG eLeuPheVal	thaI hinPI hhaI GCGCGAACGACC CGCGCTTGCTGG
	nlaIV fokI mboII sau96I mboII bsp1286 sau96I mboII banII mseI avaII aluI TCCCAGAAGAAGAAGAAGAATTCCACTGGAAAAAACTCCAACCAGATAAAAGATTCTGGGAAATCAGGGCTCCTTCTTAACTAAAGGTCCATCCA		mpli sauyoi haelii sfaNI haelii taqi haelii styl foki mnli styl foki mnli sauyoi sauyoi haelii nlaivi styl foki mnli eael sauyoi sauyoi sauyoi foki mnli eael clai sggccgrgarrrrgrrgrgrgrgaragrggggccrccarggggrccgcggaaaraaraggcggarggggarggggrgaraggggrarggggrraraggggaaaccgccraacggagagaga	thaI sau3AI mseI FIG. 2A mspI bstNI hinPI dpnI dpnI aflII haII haII haII dpnI aflII haII haII haII dpnI bstNI haIII hhaII dpnI aflII hhaII hpaII fnu4HI nAGCTTCAGCGGAACGACCAACTACCCCGGATCAGCTAATCCTTAAAGGTCTTTTTGTGTGGGGGGGAATGCGGGGGGACTGGCGGTCCAACGTTCAGTTAAGGTCAATAACACACCACGCAAGGCCATACCCCCCTGACGGCGGTCCAACGTTCGAAGTCGGCGGTTGATGGGGGGGTAGTAGTCAATAGGAAAAACACACCACGCAAGGCCATACCCCCCTGACGGCGGTCCAACGTTCGAAGTTGCGAGGAAAAACACACCACGCAAGGCCATACCCCCCTGACGGCGGTCCAACGTTAGTGAAAATGACACACAC
styI sau96I avaII	AAAACTCCAA TTTTGAGGTT	rFI fnu4HI I aluI I sau96I xhoI stNI pvuII avaI avaII bbvI taqI TGGACCAGCTGCTCGAGC ACCTGGTCGACGAGCTCAGAGCTCAGAGAGAG	mnli savali haelii nlaIV fnu sau96I nlaIII sacII GGGCCTCCATGGGGTCCGCG CCCGGAGGTACCCCAGGCGC	sau3AI dpnI GATCATCAGTTA CTAGTAGTCAAT
	h CCAGATAAAC GGTCTATTTC	AGGGAAACAA TCCCTTTGTT	avaII nlaIV fnu4HI II sacII GGGTCCGCGGCA CCCAGGCGCCGT LYValArgGlYL	mseI aflII TCCTTAAGGT AGGAATTCCA
sau3AI dpnI	hinfi GATTCTGGGAI CTAAGACCCTT	AGTGGTGCTC TCACCACGAC	styI .hATATGCCTT .TTATACGGAA .ysTyrAlaLe	FIG. 2A
mseI aflII	nlaIV bsp1286 banII AATCAGGGGTCC FTAGTCCCGAGG	GGCAAAAAAC CCGTTTTTTC CGLYLYSLYSC	sfaNI fokI mnlI IGGCGGATGCCTC CCGCCTACGGAG	A n h
dde: pleI hinfI	nseI mseI CCTTCTTAACI GAAGAATTGI	GGGATACAGI CCCTATGTCA 31yAspThrva	ali TCTCTCAAGA AGAGAGTTCT	mspI hpaII CCGGTATGGGG MetGly
ddeI leI lnfI	foki sau96i avaII !AAAGGTCCATC! !TTTCCAGGTAG! !LysGlyProSe!	aluI rsaI ACAGTGGAACTGACCTGTACAGCT TGTCACCTTGACTGGACATGTCGA	haeIII eaeI TGGCCGACCC ACCGGCTGGC	scrFI bstNI fnu4HI nGGGGGGGACTGCCGCCAGGTTGGACCGCCGAACCAACCAA
	nlaIV fokI mboII sau96I mboII bsp1286 sau96I mboII hinfI banII mseI avaII aluI TCCCAGAAGAAGAAGAATTCCACTGGAAAAACTCCAAGCTAATTACAATTCTGGGAAAATCAGGGCTCCTTCTTAACTAAAGGTCCATCCA	aluI rsaI TGTACAGCT SACATGTCGA	mnli sauy 61 mnli sauy 61 selli sfaNI haelli taqI aelli sfaNI sfaNI haelli taqI u961 sauy 61 nlalV fnu4HI sfaNI haelli taqI u961 sauy 61 nlalV fnu4HI styI fokI mnlI eael claI GCCGTGATTTGTTGTTGTCGTCATAGTGGGCCTCCATGGGGGTCCGCCGCCGAAATATATGCCCTTGGCGGATGCCTCTCTCAAGATGGCCGATCCGATCGAT	scrFI bstNI nla fnu4HI nla TGGGGGGGACTGCCGCCAGGTTGG ACCCCCCTGACGGCGGTCCAACC etGlyGlyThrAlaAlaArgLeuGly
	ž			nlaIV G C Gly

sau96I avaII

au 361 nlaIV avaII avaII avaII avaII avaII avaII puMI sauJAI mnlI dpnI mnlI pflMI alvI 901 AGGGCTTCCTCTTGAGTCTTGAACCTTTGAACAAAAAAAA	mnli betNI hatIV nlaIV nlaIII	FIG. 2B-I  scrFI  bsp1286  banII bstNI  bstNI  banII bstNI  cTCTCGGGGGACCCCTCAGGTGCAATGTACATCCTCAGGTTCCAAGGTCCAATGTACATCCCCATTTTTGTATGCCCCCCTTCTGGGAGGCACAGAGTCAAGCTCGAGG  CTCTCGGGGGACCATCATCGGGGACCACGTTACATCCTCAGGTTCCAATGTTAGAAAAAACATACAGGGGGAGAGCCACGAGGTCAGGTCGAGGTCCCCCTTTTTGTATGTA
---	---	---

ppuMI
scrFI aluI nlaIV aluI odeI
nlaIV aluI odeI
1101 GGAAGTGAACCTGGTGATGAGAGCCACTCAGCTCCAGGAAAAATTTGACCTGGACCCCCTGGGGGAGGGGATTCGACTCAAGCTGAAACTTTAAACTGGACACCCCCCTGACGTGACTCAAACTTTAAACTTGACCTCCACACCCCCTGGAGGGGATTCGACTACAACTTT

343 GluValasnLeuValValMetArgAlaThrGlnLeuGlnLysAsnLeuThrCysGluValTrpGlyProThrSerProLysLeuMetLeuSerLeuLys stuI haeI haeIII nlaIV avaII SCIFI sau96I sau96I

FIG. 2B-2

1401	1301	1201
haeili sau96i sau96i serFi scrFi scrFi bstNi scrFi mspi mspi mspi mspi mli scrFi scrFi bstNi hhai foki hphi foki foki hpaii hpaii hpaii foki hpaii hpaii foki foki foki hpaii	sau96I avaII avaII avaII  ppuMI  pimi  hinfI  acco  nlaIII  avaI mseI  seo  coo  acco  reco  reco  acco  reco  rec	mnlI avaI ddeI ddeI  ddeI  mstII  pleI  pleI  mstII  mstIII  fokI alwNI ddeI hinfI  201 CTGGAGAACAAGGAGGCAAAAGGTCTCGGAAGAAGGCGGTGTGGGTGCTGAACCTGAACCCCTGAGGGATGTGGCAGTGACTCAACGAACCCTGAACCCTGAACCCCTACACCGTCACACAACAACAACAACAACAACAACAACAACAACAACA

FIG. 20

1501 TGCGGGAT ACGCCCTA

## CD4 TM CYT Immunoglobulin γ<sub>1</sub> Hinge s ss Сн3 s-s C<sub>H</sub>1 V<sub>H</sub> Soluble rCD4 CD4<sub>2</sub>γ<sub>1</sub> Hinge s ss Сн1 s-s CH3 CD4<sub>4</sub>γ<sub>1</sub> Hinge s ss C<sub>H</sub>1 Сн2 s-s Сн3 s-s

FIG. 3

sau3AI

sau96I nlaIV eco0

**XMAIII** haeIII

GAATTCTGTCACTGCCGCGGACACGGCCGTATATTACTGTGCGAGAGCCACCTTTTGCCTATGGTACAGGGAGCGTCCCCCTTGTTGGATCGACCCCTGG CTTAAGACAGTGACGGCGCCTGTGCCGGCATATAATGACACGCTCTCGGTGGAAAACGGATACCATGTCCCTCGCAGGGGGAACAACCTAGCTGGGGAACC Inu4HI SacII eaeI alwI bstNI SCIFI

ValThrAlaAlaAspThrAlaValTyrTyrCysAlaArgAlaThrPheCysLeuTrpTyrArgGluArgProProCysTrpIleAspProTrp

103 GlyLeuGlyThrLeuValThrValSerSerAlaSerThrLysGlyProSerValPheProLeuAlaProSerSerLysSerThrSerGlyGlyThrAlaAla scrFl **bstEII** haeIII eco0 bsp1286 banII apaI nlaIV sau96I sau96I scrFI banI mnlI hgiAI bsp1286 haeIII fnu4HI

narI banI haeII nlaiv hinPI bsp1286 ngiAI hpaII

137

170 mstII pleI mnlI hinfI Inu4HI bstXI nlaIV

AsnThrLysValAspLysLysValGluProLysSerCysAspLysThrHisThrCysProProCysProAlaProGluLeuLeuGlyGlyProSerValPhe bsp1286 alwNI SCIFI avaII sau96I

## FIG. 4B-I

70	601 270	501 237
ក្សពី ភ <sup>ូ</sup> ព	ិស្ស ១ ក	1 TC 1
11. 600 600 600 600	AGT	Lean mb
scrfi ecoNI bstNI CCTGCACCAGG GGACGTGGTCC	ACT( TGA( SDT)	mboII lI TCTTC( AGAAG( euPhei
scrfi bstNI \CCAGG !GGTCC	rsal GTACO CATGO	2000 2000 2000 2000 2000
I GAC CTG	I CGT( GCA(	CAAJ
1411 9221 9291	GAC CTG	S S S S S S S S S S S S S S S S S S S
TGAJ ACTI	61y\ 6600	tyI CAAC CAYS
MCC MCC	Talco	GAC: Asp:
CAAG GTTC YLys	mnli GAGGT CTCCA	Thri
CTC CAC TEC TEC TEC TEC TEC TEC TEC TEC TEC TE	LH1:	sau nlaIII bspHI LII dpI TCATGAI AGTACTAI
rsai (GTACA (CATGT)	IAAT ATTA	sau. IIII II dpn: GATO
AGTG TCAC	SCCA CGGT AlaL	sa nl mspi Apai av hpai crrfi ncii ncii ncii
CAAG GITC SLYS	AGAC TCTG	sau96I nlaIV mspI sau3AI avaII nlaIII hpaII spHI scrFI m CATGATCTCCCGGACCC GTACTAGAGGGCCTGGG
GTC: CAGI	AAA( TTTTC	II de la
CCA.	thai sacii nu4Hi CCGCG GCGCG	mnli ddeI mstiI eco8lI cCTGAGG
ACAA IGIT snLy	thal sacil fnu4HI mnli GCCGCGGGAGG CGGCGCCCTCC	TATE
TAGCC	nli AGGA TCCT	nla ACAT TGTA
mnli CCTC GGAG	uGL)	Asa GCG1 III
scrFI ecoNI bstNI 701 GTCCTGCACCAGGACTGGCTGAATGGCAAGGAGTACAAGGTCCCAAGAAAGCCCCCAGCCCCAGCCCCCAT CAGGACGTGGTCCTGACCGACTTACCGTTCCTCATCATCAAGGGTCTCCAAGAGGTCTTCGGGAGGGTCGGGGGTACATGGTACGGGTCGGGGGTACATGGTTCCAGGACGTTCCTGACGGTCGGGGGTAGGGTAGGGTTCCAGACGTTCCTGACGGTCCGGGGGTAGGGTTCCAGAGGTTCCTGACGTTCCTCATGTTCCAGAGGTTGTTTCGGGAGGGTCGGGGGTAGGGTAGATGTTACCGTTACCGTTCCTCATGTTCAGAGAGGTTGTTTTCGGGAGGGTTCGGGGGGTAGATAGA	rsal GTAC CATG	CCA CCA
144 0000 0000	AACA TTGI	GGTG
CATO CATO	er11	GACC Asp\
agI CGAG GCTC	rsall TGTAC	STGA CACTA
AAAA TTTT Lysi	scrfi ncii mspi hpaii hCCGGG	GCCA CGGT
bril.	I GTGC CACC	mbc CGAA SGLu
scrFI ecoNI bstNI 153I 201 GTCCTGCACCAGGACTGAATGGCAAGGAGTACAAAGTGCAAGGTCTCCAACAAAGCCCTCCCAGCCCCCATCGAAAAACCATCTCCAAAAGCCATAGGTTTCCAAAGGTTCTCCAAGGTTTTTTTT	scrfi ncii ncii mspi sacii sacii rsai mspi shai rsai mspi shaii mspi shaii rsai hpaii mhli GTTCAACTGGTACCGGGGGGGGGGGGGAGGAGAAGACAAGACAAGACGGGAGGA	sau96I  nlaIV  mspI  mspI  sau3AI avaII mnlI  mhoII scrFI mstII  mhoII styI mnlI  mnlI  mooII styI mnlI scrFI mstII  mccrcrcrcccccaaaaaccacaccccaaaaccaccaccac
CAAA STTT cLys	hgaI CCCT CCCA NACCT	mn ddeI mstII eco81 CCTGA ProGL
GCCA CGGT AlaL	mnli hphi CCTCAC GGAGTG	mnli eI II 81I GAGGTO CTCCAO
AAG TTC YSG]	ACC TGG	CAA GTT LLys
Ÿ		

	901	801
F F T	CAGCGACATCGCCGTGGAGTC GTCGCTGTAGCGGCACCTCAC SerAspileAlaValGluti	fnu4HI bbvI avaI GGCAGCCCCGAGAACCACAGC CCGTCGGGGCTCTTGGTGTCC GlnProArgGluProGlnV
	mspI hpaII hpaII fnu4HI fnu4HI mnlI mnlI hini hini caccacacarcccccccccccccccccccccccccccc	scrFI nciI mspI hpaII smaI smaI scrFI smaI scrFI smaI scrFI fnu4HI bbvI avaI bbvI avaI cGCAGCCCCGAGAACCACAGGTGTACACCCCTGCCCCCATCCCGGACTGACT
nlaIII	mspI hpaII fnu4HI fnu4HI mnlI pleI pleI mnlI pleI molI pleI pleI pleI pleI pleI pleI molI pleI pleI pleI pleI pleI pleI pleI pl	scrFI ncil mspI hpaII smaI smaI scrFI fnu4HI fbvI avaI bbvI avaI cCGTCGGGGCTCTTGGTGCTGCACCAGTGTGGGGCCCCATCCCGGTAGGGCCCCTACTGGGGTTCTATCC GGACCCGAACCAGGTGTCCAGGTGTACACCCTGCCCCTACTGASpGluLeuThrLysAsnGlnValSerLeuThrCysLeuValLysGlyPheTyrPro
	mnli fi nlaiv mboii rccgacgcrccrrcrrccrcrac aggcrgccgaggaagaagarg seraspglyserPhePheLeuTyr	scrfi bstni PMI CTGCCTGGTCAAAGGCTTCTATCC GACGGACCAGTTTCCGAAGATAGG rCysLeuVallysGlyPheTyrPro

9

hpāII
1101 TCTCCCTGTCTCCGGGTAAATGAGTGCGACGGCCG
AGAGGGACAGAGGCCCATTTACTCACGCTGCCGGC
437 SerLeuSerProGlyLysOP\*

nciI mspI

mspI hpaII haeIII xmaIII

101 GARTAACTTCTATCCCAGAGAGAGGCCCAAAGTACAGTGGAAGGTGGATAACGCCCTCCAATCGGGTAACTCCCAGGAGAGTGTCACAGAGCAGGACAGGAAGCAAGGATT CTTATTGAAGATAGGGTCTCTCCGGTTTCATGTCACCTTCCACCTATTGCGGGAGGTTAGCCCCATTGAGGGTCCTCTCACAGTGTCTCGTCCTGTCGTTC AsnAsnPheTyrProArgGluAlaLysValGlnTrpLysValAspAsnAlaLeuGlnSerGlyAsnSerGlnGluSerValThrGluGlnAspSerLys ecoRI ValGluIleLysArgfthrValAlaAlaProSerValPheIlePheProProSerAspGluGlnLeuLysSerGlyThrAlaSerValValCysLeuLeu ThrLeuThrIleSerGlyLeuGlnProGluAspPheAlaThrTyrTyrCysGlnGlnTyrLysSerLeuSerLeuThrPheGlyGlyGlyThrLys sau3AI ↑ VKJK CK haeIII Ilam fnu4HI bbvI haeI fnu4HI inu4HI mboII bstNI mnlI styI nlaIV avaII sau961 sacI

FIG. 5

301 GACAGCACCTACAGCCTCAGCAGCACCCTGĀCGCTGAGCAAAGCAGAGACTACGAGAGAAACACAAAAGTCTACGAGAGAGTCACCCATCAGGGCCTGAGCCTGAGCT CTGTCGTGGATGTCGGAGTCGTCGTGGGACTGCGACTCGTTTCGTCTTTGTGTTTTGTGTTTTAGATGCGAAGAGTCACCAATCAGAGGCTAGTCAGGCTAGTCGAGCCT

alwNI ddeI

haeIII sau96I aluI

hgiAI bspl286

banII

mnlI bbvI

hgaI

fnu4HI

AspSerThrTyrSerLeuSerSerThrLeuThrLeuSerLysAlaAspTyrGluLysHisLysValTyrAlaCysGluValThrHisGlnGlyLeuSerSer

ddeI

204

alui mnli bsp1286 bspMI mnli cGCCCGTCACAAAAGAGCTTCAACAGGGAGAGAGGGAGAAGTGCCCCCACCTGCTCCAGT

ProValThrLysSerPheAsnArgGlyGluCysAM\*